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DATE MAILED: 01/11/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

21005 7590 01/11/2010 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 VIRGINIA ROAD P.O. ROX 9133 EXAMINER

HEINCER, LIAM J

ART UNIT PAPER NUMBER

1706

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,167	05/10/2006	Heinrich Becker	3724.1007-000	5617

TITLE OF INVENTION: CONJUGATED POLYMERS CONTAINING DIHYDROPHENANTHRENE UNITS AND USE THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/12/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

CONCORD, MA 01742-9133

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed oth ions.	for transmitting the IS ng the Patent, advance nerwise in Block 1, by	SSUE FEE and PUBLI e orders and notification y (a) specifying a new	n of m	ON FEE (if requin naintenance fees wi pondence address;	ed). B II be i and/or	locks 1 through 5 s nailed to the current (b) indicating a sepa	nould be correspon rate "FEE	completed where dence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
530 VIRGINIA P.O. BOX 9133	BROOK, SMITH ROAD	/2010 & REYNOLDS	, P.C.	I ber	Certi	ificate	of Mailing or Trans) Transmittal is being ficient postage for fire (SSUE FEE address 1) 273-2885, on the d	denositea	I with the United ill in an envelope being facsimile ted below.
CONCORD, MA	X 01742-9133								(Depositor's name)
				L					(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		CONFIR	RMATION NO.
10/568,167	05/10/2006		Heinrich Becke	er	•	3	724.1007-000		5617
TITLE OF INVENTION									
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		04/12/2010
EXAM	INER	ART UNIT	CLASS-SUBCLAS	SS	7				
HEINCER		1796	528-125000						
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 1/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA	inge of Correspondenc "Indication form and Use of a Custome A TO BE PRINTED O	e or agents OR, alto (2) the name of a registered attorne 2 registered pater listed, no name w	up to ernative single by or a nt attor vill be	e firm (having as a a gent) and the name: meys or agents. If n printed.	attorn membe s of up o nam	era 2 o to e is 3	ocument h	nas been filed for
(A) NAME OF ASSIC		categories (will not be			and STATE OR CO			oup entity	Government
4a. The following fee(s) a Issue Fee Publication Fee (N Advance Order - #	o small entity discount p	permitted)	The Director is I	osed. dit care hereby	d. Form PTO-2038	is atta	ched. equired fee(s), any de	ficiency, o	
	SMALL ENTITY state	as. See 37 CFR 1.27.					TTY status. Sec 37 Ci		
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) will not be acce ites Patent and Tradem	pted from anyone other ark Office.	than th	he applicant; a regist	tered a	ttorney or agent; or th	e assigned	or other party in
Authorized Signature					Date				
Typed or printed name					Registration No	o			
This collection of informan application. Confident submitting the completed this form and/or suggestit Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu- irginia 22313-1450. DC 13-1450.	CFR 1.311. The inform U.S.C. 122 and 37 CI USPTO. Time will v rden, should be sent to D NOT SEND FEES C	nation is required to obta FR 1.14. This collection rary depending upon the othe Chief Information OR COMPLETED FOR!	in or n is esti indiv Office MS TO	etain a benefit by the imated to take 12 m idual case. Any con r, U.S. Patent and T O THIS ADDRESS.	e publ inutes nment: 'radem SENI	ic which is to file (and to complete, includir s on the amount of til ark Office, U.S. Dep O TO: Commissioner	by the U: g gathering ne you researtment of for Patents	SPTO to process) g, preparing, and quire to complete Commerce, P.O. s, P.O. Box 1450,

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10/568,167	67 05/10/2006 Heinrich Becker		3724.1007-000	5617		
21005 75	90 01/11/2010	EXAMINER				
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.			HEINCER, LIAM J			
530 VIRGINIA ROAD			ART UNIT	PAPER NUMBER		
P.O. BOX 9133 CONCORD, MA 01742-9133			1796 DATE MAIL ED: 01/11/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 107 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 107 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)			
10/568,167	BECKER ET AL.			
Examiner	Art Unit			
iom I Hoinear	1706			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 9/17/09.
- The allowed claim(s) is/are 37-44,46-59 and 69-72.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☑ All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date _____
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other _____.

/Mark Eashoo/

Supervisory Patent Examiner, Art Unit 1796

Art Unit: 1796

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Alexander Akheizer on December 29, 2009.

The application has been amended as follows: Amend claim 37 so that it reads "characterized in that it comprises 10 mol%" rather than "characterized in that it comprises 1 mol%" in line 1. This amendment has support in the original specification (16:18-19).

Amend claim 48 to remove the recitation of "(i.e. Ru, Os, Rh, Ir, Pd, Pt)".

Amend claim 57 so that it reads "The polymer as claimed in claim 37, wherein the structure units of the formula are of the fomulae (CV),

, where R is a straight-chain or branched alkyl chain

having from 1 to 8 carbon atoms."

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: The prior art of record does not teach or suggest the polymer comprising at least 10 mol% of units

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represented by Formula(I). The closest prior art is Noguchi et al. (EP 1074600). : Noguchi et al. teaches a polymer containing at least 10 mol% of units (¶0020) of units of the formula

having 1 to 20 carbon atoms, or an aryl group with 6 to 60 carbon atoms and n is zero or one (\P 0016), and Ar_1 is

(7:30-35). Noquchi et al. teaches R₈ as

being hydrogen, cyano groups, amino groups, silyl gouprs, alky or alkoxy groups with 1 to 20 carbon atoms, or an aryl or aryloxy group with 6 to 60 carbon atoms (¶0027). Noguchi et al. further teaches units of biphenyl or greater phenylene chains (Formula (5)). When these units are present beside the unit of the formula

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Liam J. Heincer whose telephone number is 571-270-

3297. The examiner can normally be reached on Monday thru Friday 7:30 to 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have guestions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/ Supervisory Patent Examiner, Art Unit 1796

LJH

December 29, 2009